

Datasheet for ABIN3088583

SSX2IP Protein (AA 1-614) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	SSX2IP
Protein Characteristics:	AA 1-614
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SSX2IP protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MGDWMVTVD P GLSSESKTIS QYTSETKMSP SSLYSQQVLC SSIPLSKNVH SFFSAFCTED</p> <p>NIEQSISYLD QELTTFGFPS LYEEKSGKET KRELNIVAVL NCMNELLVLQ RKNLLAQENV</p> <p>ETQNLKLGSD MDHLQSCYSK LKEQLETSRR EMIGLQERDR QLQCKNRNLH QLLKNEKDEV</p> <p>QKLQNIASR ATQYNHDMKR KEREYNKLKE RLHQLVMNKK DKKIAMDILN YVGRADGKRG</p> <p>SWRTGKTEAR NEDEMYKILL NDYEYRQKQI LMENAELKKV LQQMKKEMIS LLSPQKKKPR</p> <p>ERVDDSTGTV ISDVEEDAGE LSRESMWDL S CETVREQLTN SIRKQWRILK SHVEKLDNQV</p> <p>SKVHLEGFND EDVISRQDHE QETEKLELEI QQCKEMIKTQ QQLLQQQLAT AYDDDTTSL</p> <p>RDCYLLEEKE RLKEEWSLFK EQKKNFERER RSFTEAAIRL GLERKAFEEE RASWLKQQFL</p> <p>NMTTFDHQNS ENVKLFSAFS GSSDWDNLIV HSRQPQKKPH SVSNGSPVCM SKLTKSLPAS</p> <p>PSTSDFCQTR SCISEHSSIN VLNITAEI K PNQVGECTN QKWSVASRPG SQEGCYSGCS</p> <p>LSYTNSHVEK DDLP</p>

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Product Details

Grade: custom-made

Target Details

Target: SSX2IP

Alternative Name: SSX2IP ([SSX2IP Products](#))

Background: Afadin- and alpha-actinin-binding protein (ADIP) (Afadin DIL domain-interacting protein) (SSX2-interacting protein),FUNCTION: Belongs to an adhesion system, which plays a role in the organization of homotypic, interneuronal and heterotypic cell-cell adherens junctions (AJs). May connect the nectin-afadin and E-cadherin-catenin system through alpha-actinin and may be involved in organization of the actin cytoskeleton at AJs through afadin and alpha-actinin (By similarity). Involved in cell movement: localizes at the leading edge of moving cells in response to PDGF and is required for the formation of the leading edge and the promotion of cell movement, possibly via activation of Rac signaling (By similarity). Acts as a centrosome maturation factor, probably by maintaining the integrity of the pericentriolar material and proper microtubule nucleation at mitotic spindle poles. The function seems to implicate at least in part WRAP73, the SSX2IP:WRAP73 complex is proposed to act as regulator of spindle anchoring at the mitotic centrosome (PubMed:23816619, PubMed:26545777). Involved in ciliogenesis (PubMed:24356449). It is required for targeted recruitment of the BBSome, CEP290, RAB8, and SSTR3 to the cilia (PubMed:24356449). {ECO:0000250|UniProtKB:Q8VC66, ECO:0000269|PubMed:23816619, ECO:0000269|PubMed:24356449, ECO:0000305|PubMed:26545777}.

Molecular Weight: 71.2 kDa

UniProt: [Q9Y2D8](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for

Application Details

protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months